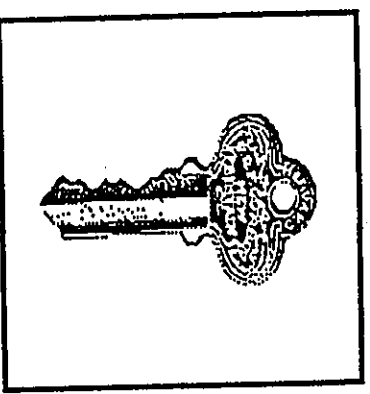
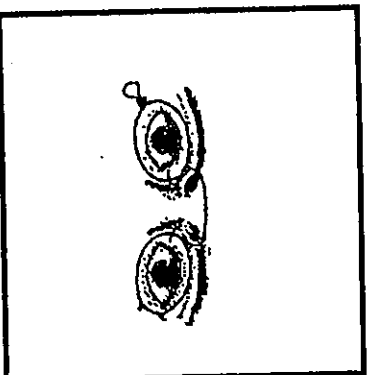
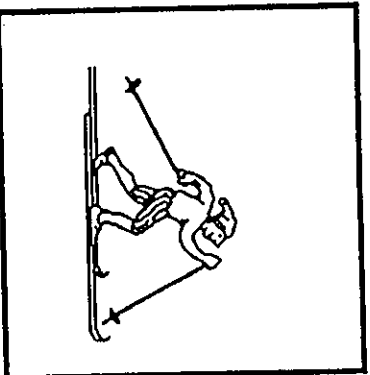


# REFERENCE LISTS OF MINIMAL CONTRASTS FOR CLUSTER REDUCTION IN WORD-INITIAL POSITION



ski

see

key

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# for [sp] blends

spunk -	sunk, punk	spurt -	pert
spy -	sigh, pie	spark -	park
spies -	size, pies	sport -	sort, sought, port
speed -	seed	spoke -	soak, poke
speak -	seek, peak	spike -	pike
spore -	sore, soar, saw	spout -	pout
	pore, poor, pour	spelt -	pelt
spine -	sign, pine	spin -	sin, pin
spit -	sit, pit	spoon -	soon
spot -	sot, pot	span -	pan
spell -	sell	spank -	sank
spend -	send	spill -	sill, pill
Spain -	sane, pain, pane	space -	pace
speck -	peck	sparse -	pass
spent -	sent, cent, pent	spawn -	sawn, pawn
spat -	sat, pat	spire -	sire, pyre
speech -	peach	spite -	sight, site
spur -	sir, purr	spoil -	soil
spear -	sear, peer	spun -	son, sun, pun
spare -	pair, pear	sped -	said

# for [st] blends

stick -	sick, tick	start -	tart
stuck -	suck, tuck	stalk -	talk
stop -	top	stoke -	soak
still -	sill, till	stoop -	soup
stilt -	silt, tilt	stand -	sand, tanned
steed -	seed	stair -	tear
steep -	seep	stool -	tool
stake -	sake, take	steam -	seam, seem, team
steer -	sear, tear	stung -	sung, tongue
sty -	sigh, tie	stunk -	sunk
sing -	sing	stock -	sock
stint -	tint	steal -	seal, teal
stab -	tab	stay -	say
stow -	sew, so, tow	stage -	sage
style -	tile	steak -	sake, take
stink -	sink	stale -	sail, sale, tale, tail
stead -	said, Ted	stain -	sane
stack -	sack, tack	stir -	sir
store -	soar, sore, saw, tore	stank -	sank, tank
stall -	tall	stub -	sub, tub
star -	tar	stun -	son, sun, ton
stag -	sag, tag		

# for [sw] blends

swing -	sing, wing, wring	swarm -	warm
swede -	seed, weed	swish -	wish
sweep -	seep, weep	swift -	sift
sway -	say, way, weigh	swill -	sill, will
swayed -	weighed, wade	swell -	sell, well
swore -	saw, sore, soar, wore, war	swum -	some, sum
swag -	sag, wag	swept -	wept
switch -	witch, which	sworn -	sawn, warn, worn
swipe -	wipe	swear -	wear, where
swig -	wig	sweat -	set, wet, whet
swat -	sot, what	swish -	wish
swine -	sign, wine, whine	suede -	wade, weighed
swim -	whim	swerve -	serve
swallow -	wallow	sweet -	seat, wheat
swag -	sag, wag	swept -	wept
swoon -	soon	swung -	sung
swoop -	soup	swab -	sob

# for [sl] blends

slick -	sick, lick	slate -	late
slip -	sip, lip	slight -	site, sight, tight
slime -	lime	silt -	sit, lit
slow -	so, sew, low	sleeve -	leave
sled -	said, led, lead	slot -	sot, lot
slack -	sack, lack	slave -	save
slid -	Syd, lid	sling -	sing
slice -	lice	slam -	Sam, lamb
slink -	sink, link	sleek -	seek, leak, leek
sledge -	ledge	sleet -	seat
sleep -	seep, leap	slay -	say, lay
slept -	leapt	slake -	sake, lake
slab -	lab	slope -	soap, lope
sly -	sigh, lie	sleigh -	say, lay
slide -	side, lied	slap -	sap, lap
slain -	sane, lain	slim -	limb
slag -	sag, lag	slang -	sang
slap -	sap, lap	slash -	sash, lash
slat -	sat	slug -	lug
slum -	some, sum	slump -	sump, lump
slung -	sung, lung	slunk -	sunk
slur -	sir	sloop -	soup, loop

for [tr] blends

tread -	Ted, red, read	trifle -	rifle
tray -	ray	tree -	tea, tee, "T", re
track -	tack, rack	truck -	tuck, ruck
train -	rain, reign	truth -	tooth, Ruth
trait -	rate	trot -	tot, rot
Trent -	tent, rent	tryst -	wrist
trail -	tail, tale, rail	trench -	wrench
tried -	tied, ride	trip -	tip, rip
trade -	raid	trap -	tap, rap, wrap
trite -	tight, right	trim -	Tim, rim
tripe -	type, ripe	treat -	teat
try -	tie, rye	trace -	race
trill -	till, rill	trawl -	tall
tramp -	ramp	troll -	toll
trump -	rump	true -	two, to, too, rue
trick -	tick, rick	trice -	rice
trek -	wreck	trout -	tout
tract -	tacked, tact	trust -	rust
trash -	rash	trod -	Todd, rod
trend -	tend		

for [dr] blends

drug -	dug, rug	drain -	rain, reign
drench -	wrench	drink -	rink
dry -	dye, die, rye	draw -	door, raw, roar
drown -	down	drum -	dumb, rum
drip -	dip, rip	drive -	dive
drag -	dag, rag	draft -	daft, raft
drift -	rift	drill -	rill
dread -	dead, red, read	drab -	dab
drank -	dank, rank	dream -	deem, ream
dray -	day, ray	drake -	rake
droll -	doll	drove -	rove
drew -	do, rue	drool -	rule
drought -	doubt		

# for [ɒr] blends

throw - row  
thrust - rust  
thread - red, read  
thrift - rift  
thrips - rips  
threw - rue  
thrice - rice

throng - thong, wrong  
throb - rob  
thrush - rush  
thrill - rill  
three - re  
through - true

# for [fr] blends

fruit - root  
fridge - ridge  
freak - reek  
fray - Fay, ray  
Fred - fed, red, read  
freight - fate, rate  
frill - fill, rill  
fizz - fizz  
friend - fend, rend  
frought - fought, fort, wrought  
fry - rye  
frisk - risk

frank - rank  
front - runt  
frock - rock  
frog - fog  
frond - fond  
froth - wrath  
frame - fame  
free - fee, re  
fraud - Ford, roared  
fro - row  
fright - fight, right, write

# for [ʃr] blends

shift - shift  
shrill - rill  
shrink - rink  
shiek - shiek, reek  
shred - shed, red, read  
shrewd - shoed, rude

shrank - shank, rank  
shrub - rub  
shrug - rug  
shrew - shoe, rue  
shrine - shine, Rhine

# for [k] blends

clink -	kink, link	clock -	lock
clay -	Kay, lay	clean -	keen, lean
clack -	lack	clash -	cash, lash
claw -	core, law	climb -	lime
clag -	lag	claim -	came, lame
cleave -	leave	clause -	cause, laws
click -	kick, lick	clap -	cap, lap
clothe -	loathe	clip -	kip, lip
clad -	cad, lad	club -	cub
clot -	cot, lot	clump -	lump
cleft -	left	clam -	lamb
clamp -	camp, lamp	clan -	can
clank -	lank	cluck -	luck
clog -	cog, log	clung -	lung
clear -	leer	cleave -	leave
cloke -	coke	clerk -	lark
clove -	cove	cloud -	loud

# for [g] blends

glow -	go, low	glade -	laid
glance -	lance	globe -	lobe
glad -	lad	gloat -	goat
glut -	gut	glide -	guide, lied
glove -	love	glitter -	litter
gloss -	loss	gloom -	loom
glimpse -	limps	glint -	lint
glare -	lair	gland -	land
glum -	gum	glee -	lea, lee
glean -	lean	glaze -	laze

**for [kw] blends**

queen -	keen, wean, ween	quick -	kick, wick
quake -	cake, wake	quip -	kip, whip
quart -	court, caught, wart	quit -	kit, wit
quote -	coat	quack -	whack
quite -	kite, white	quilt -	kilt, wilt
quince -	wince	quartz -	courts, warts
quench -	wench	quell -	well
quest -	west	quiz -	wizz
quirk -	work	quoir -	wire

**for [spl] blends**

split -	sit, pit, lit, spit, slit	spleen -	seen, lean
splint -	lint	splay -	say, pay, lay, slay, play
splash -	sash, lash, slash	splice -	lice, spice, slice
splurge -	surge, purge	splat -	sat, pat, spat, plait

**for [spr] blends**

sprig -	pig, rig, prig	sprung -	sung, rung, wrung
spring -	sing, ping, ring, wring	spry -	sigh, pie, rye, spy, pry
sprint -	print	sprite -	sight, site, right, write
sprit -	sit, pit, writ, spit	spree -	sea, see, pea, re
spread -	said, red, read, sped	sprout -	pout, spout
sprang -	sang, rang, prang	spray -	say, pay, ray, pray
sprat -	sat, pat, rat, spat	sprain -	sane, pain, pane, rain, reign, Spain

# MINIMAL PAIR CONTRASTS

## FOR THE [w] AND [l] SOUNDS IN WORD-INITIAL POSITION

white -	light	wok -	lock
wink -	link	weave -	leave
why -	lie	wham -	lamb
wise -	lies	ward -	lord
weed -	lead	wept -	leapt
wet -	let	wife -	life
whim -	limb	Wally -	lolly
we're -	leer	wed -	led, lead
womb -	loom	wane -	lane, lain
wick -	lick	wire -	liar, lyre
wax -	lax	went -	lent, leant
what -	lot	we -	lee, lea
wean -	lean	worn -	lawn, lorn
weep -	leap		
wide -	lied		
weft -	left		
weren't -	learnt		
wimp -	limp	way, weigh	- lay
whittle -	little	wade, weighed	- laid
wake -	lake	wet, whet	- let
whack -	lack	wine, whine	- line
woe -	low	wore, war	- law
work -	lurk	whether, weather	- leather
whip -	lip	wait, weight	- late
wag -	lag	wit, whit	- lit
wend -	lend	week, weak	- leek, leak
wedge -	ledge	wear, ware, where,	-
ways -	laze	we're	- lair
win -	Lyn		
wag -	lag		

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# MINIMAL PAIR CONTRASTS

## FOR THE [w] AND [r] SOUNDS IN WORD-INITIAL POSITION

weep -	reap	wham -	ram
wake -	rake	wow -	row
wink -	rink	woo -	rue
whack -	rack	wick -	rick
when -	wren	will -	rill
wend -	rend	wad -	rod
whim -	rim	was -	Ros
wipe -	ripe	we -	re
wig -	rig	wench -	wrench
whip -	rip	wing -	ring, wring
whisk -	risk	weed -	read, reed
weave -	reeve	wed -	red, read
wove -	rove	white -	write, right
womb -	room	why -	rye, wry
wok -	rock	wane -	rain, reign
we're -	rear	woe -	row, roe
whit -	writ	ways -	raise, raze
wedge -	Reg	won, one	- run
wine -	Rhine	week, weak	- reek
wave -	rave	wait, weight	- rate
wage -	rage	which, witch	- rich
wart -	wrought	whale, wail	- rail
went -	rent	weigh, way	- ray
wag -	rag	while, wile	- rile
wide -	ride	wore, war	- roar, raw
wind -	rind	weighed, wade	- raid, rayed
wound -	round	wheel, weal	- reel, real
wife -	rife	wear, ware,	
wise -	rise	where, we're -	rare
what -	rot		

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